Binh Nguyen • v1.18.1 CS-E4730 Computational Social Science ▼



<

« 3. Week: Data & digital traces CS-E4730 / 3. Week: Data & digital traces / 3.1 Lecture questions

Course materials

3.2 Exercise: Big data characteristics »



Your points

# Lecture questions

In this exercise you will answer questions related to this week's lecture.

Note that you can submit the answer to each question only once. The questions are designed to be easy if you have followed the lecture. Note that the questions can vary slightly between students.



■ To be submitted alone ⚠ The deadline for the assignment has passed (Wednesday, 29 March 2023, 19:00).

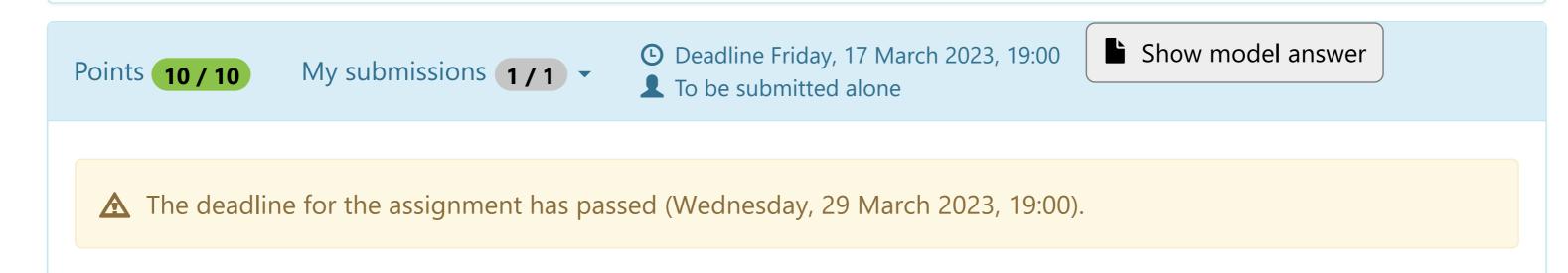
#### Research suitability of big data

**Question 1 10 / 10** 

What are the three big data characteristics which make it (generally) suitable for research purposes?

- O Big, Sensitive, Nonreactive
- O Big, Always on, Drifting
- Big, Nonreactive, Always on
- O Big, Nonrepresentative, Nonreactive ✓ Correct!

Submit



### Challenges of conventional social science data

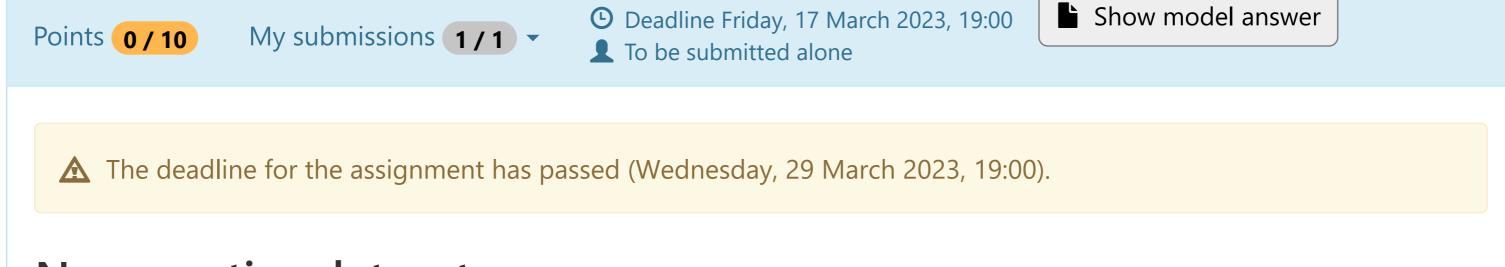
Question 1 10 / 10

What are the problems with working with small sample sizes, typical of conventional data for social science research, such as questionnaires, interviews or experiments?

- Statistical significance and random fluctuations
- Might miss frequently occurring events
- All of the above
- O None of the above

Submit

✓ Correct!



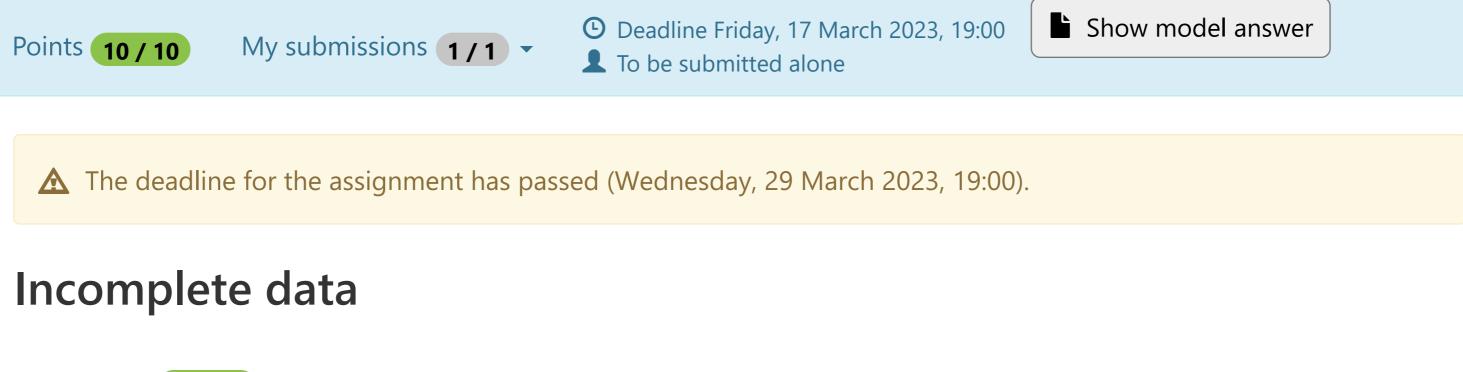
## Non reactive datasets

Question 1 0 / 10

Which of the following datasets are likely to be non-reactive?

- Call records data
- Email records data
- Social media data
- All of the above O None of the above
- **X** Incorrect

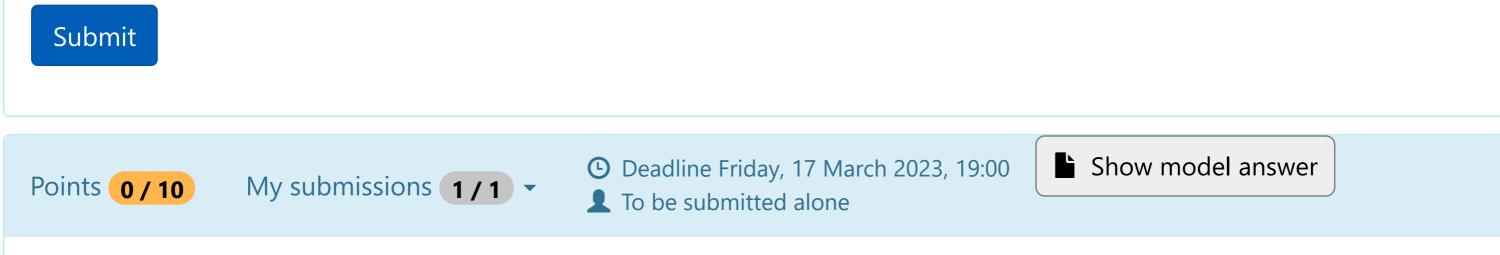
Submit



Question 1 10 / 10

We want to study the relationship between number of messages between two individuals and the strength of their social ties using mobile phone operatoration billing records for SMSes (similar to the call records data discussed in class). Which of the following data would be missing from the billing records but still be useful for the proposed study goal?

- O Content of the messages
- Estimate of relationship in offline world
- Estimate of frequency of messages between the individuals on other messaging platforms such as Telegram or WhatsApp.
- All of the above O None of the above
- ✓ Correct!



Question 1 0 / 10 A ten-year longitudinal study of how different people use hashtags is likely to suffer from which of the following drifts?

Drifting

Population drift

⚠ The deadline for the assignment has passed (Wednesday, 29 March 2023, 19:00).

A+ v1.18.1

- Behavioural drift
- O System drift
- All of the above
- O None of the above **X** Incorrect

Accessibility Statement Support Feedback

Submit